

~~SECRET~~

LANGLEY TECHNICAL SECTION

I. Wire Unit

1. Main Signal Center

- a. Our summer employee was instrumental in updating approximately eighty percent of the Section's supply system. All obsolete spare parts and void locator cards were removed. New spares were stored and filed for reference.
- b. One hundred and fourteen selector magnet shield modifications were completed which represents approximately twenty percent of the total to be modified.
- c. Sixteen KAM-149A and KAM-150A KW-26 filter modifications have been completed. Thirty-six remain to be done.
- d. The service schedule is current.

2. Installations

- 25X1C4a a. On 4 August a KW-7/TWX installation was installed and activated in the [REDACTED]
- 25X1A5a1 b. Installed two [REDACTED] cryptographic equipments in the Signal Center Training Room for operator familiarization.
- c. Completed a KW-7/AK-3 rack installation in the Special Signal Center on 14 August.

3. T.D.Y.

T.D.Y. assistance was given at the following locations during the month of August:

- 25X1A6a a. [REDACTED] - 9 August through 12 August.  
Two technicians replaced the HW-19A with KW-7 equipment.
- 25X1A6a b. [REDACTED] 15 August through 18 August.  
Two technicians completed a new KW-7/TWX installation.
- 25X1A6a c. [REDACTED] - 19 August through 24 August.  
Two technicians completed a new KW-7/TWX installation.
- 25X1A6a d. [REDACTED] 24 August through 1 September.  
One technician sent to relocate the KW-26 equipment and completely service the communications center.

~~GROUP 1~~  
~~Excluded from automatic~~  
~~downgrading and~~  
~~declassification~~

I. Wire Unit (Continued)

- 25X1A6a e. [REDACTED] - 9 August thru present.  
Three technicians are assisting in wiring and installing communication equipment in the new school building.
- 25X1A6a f. [REDACTED] - 15 August  
One technician was sent to install a filter box, FA-10-393 on the TWX equipment.

4. The following reflects the number of troubles reported and corrected in the Washington Area for this month:

a. Langley Signal Centers

1) Cryptographic Equipment	-	24
2) Teletype and Miscellaneous Equipment	-	153
TOTAL:		<u>177</u>

b. Outside Area Signal Centers

1) Cryptographic Equipment	-	6
2) Teletype and Miscellaneous Equipment	-	17
TOTAL:		<u>23</u>

II. Electronic Unit

1. KY-3 Secure Voice System

a. Installation

- 1) Installed a KY-3 with two extensions in Room 3D0004, Hqs.
- 2) Installed a KY-3 with one extension [REDACTED] 25X1A6a
- 3) Installed a KY-3 with two extensions in the [REDACTED] 25X1A6a  
Park for OS/DD/PTOS. .

b. Removed the KY-3 which was previously connected to Mr. Rayborn's residence from the Watch Office Area, Room 7F35, Hqs. *Adm.* ✓

c. Eighty-nine KY-3 equipments are now operational. The following reflects the number of troubles for the month:

II. Electronic Unit (Continued)

- 1) Set Troubles - 30 each
- 2) Distant End Troubles - 4 each
- 3) Operational Troubles - 15 each
- 4) Telephone Company Troubles - 4 each

TOTAL: 53 each

2. CIA CIFAX System

- a. Five troubles were reported and corrected, one of which was a distant end trouble.
- b. Installed an incoming message remote alerting device per Comsec specifications. Both audio and visual alarms were installed.

3. Microwave System

- a. The system was checked out for unity gain. A faulty Klystron was replaced on the spare equipment at the [REDACTED] end.  
25X1A3a
- b. We are preparing a Bill of Materials for [REDACTED] to convert the microwave teletype keying circuits from neutral to polar. The conversion is expected to take place sometime in November. No major problems are anticipated.  
25X1A6a

25X1A3a

4. HY-2/KG-13 Headquarters/[REDACTED] Secure Voice Circuit

25X1A6a

- a. One trouble was reported and corrected.

5. KY-5

- a. Eight troubles were reported and corrected.
- b. We are making plans to replace the KY-5 with the KY-3 equipment utilizing the broadband switch at Headquarters. Preliminary work will begin in early September.

*Langley - via microwave*

6. DCI/SO Very-High-Frequency Net

- a. Two Quick Call troubles were reported and corrected.

OVERTIME

A total of eighty-seven hours of overtime was worked during this reporting period.

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25X1A6a [REDACTED] TECHNICAL SECTION

Overtime -

1. Staff Employees - 0 Hours.
2. Contract Employees - 0 Hours.
3. Staff Employees - Donated 61 Hours.

T & I UNIT

1. The 8-PAC project has taken up much T&I time this month. Many discrepancies have been noted and the proper individual(s) informed.
2. Because of the change in electrical specifications some RT-49's are being accepted. The mechanical problem of case fit has not been completely solved, but there is a decided improvement over earlier units.
3. Two 32 Channel Sangamo Tape Recorders were checked this month. The units are of excellent quality with good specifications.
4. Listed are some of the items of equipment processed this month:

	<u>Accepted</u>	<u>Rejected</u>
Thirty-two CEI VHF Receivers	32	0
Thirty-five KE-8E Keyers	33	2
Fifteen RS6 Special Purpose Radio Sets	7	8
Twenty-three G.E. Porta-Mobiles	22	1
Forty ASR-100 Transceivers	39	1
Forty-eight RR-49 Receivers	28	20
Twenty-six RT-49 Transmitters	16	10
Sixty-eight HG-48A Hand Crank Generators	68	0
Sixteen Northern Radio Tone Keyers	16	0
Ten Tektronix 321A Scopes	10	0
Fifteen H.P. Model 200CD Signal Gen.	14	1
Thirty-two Selective Phone Systems	32	0
Twenty-nine Cartridges, Allocation 26	29	0
Twenty-seven Coders, Allocation 26	26	1
Six RCA WV 98C VTVM Meters	6	0
25X1A5a1 Seven Ampex SP-300-Recorder/Reproducers	2	5
Five Kahn RSSB-62-1B Converters	5	0
25X1A5a1 Twenty-one Transceivers <span style="background-color: black; color: black;">[REDACTED]</span>		
<span style="background-color: black; color: black;">[REDACTED]</span>	19	2
Ten Power Supplies, AN 268-U	10	0

25X1A6a

\*Checked [REDACTED]

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IN-PLANT INSPECTIONS

1. Two inspections were held at [REDACTED] in which nineteen LSSB Exciters and five RSSB Converters were accepted.
2. One inspection was held at [REDACTED] in which thirteen SBE-2A's, two ATS-50's, and one SBC-1 were accepted.

25X1A5a1

25X1A5a1

ELECTRONIC/TELETYPE REHAB UNIT

1. The Electronic Technicians processed forty-seven items of PTI equipment, seven items on job orders, seventeen items on repair requests, and one item on a receiving voucher.
2. Seven items of TTY equipment were processed on receiving vouchers, twenty-eight items on cargo vouchers, twenty-two items on PTI's, and one item on a job order. Of the TTY equipment processed this month twenty-three items were major pieces of equipment.

ENGINEERING UNIT

1. The KT-6 Installation Tool Kit is now available from stock.
2. An evaluation of the Digitec DC Digital Voltmeter was made this month.
3. A demonstration was held this month on the new H-P 180A 50 MHz solid state oscilloscope. Specifications are being obtained for future consideration and evaluation.

CALIBRATION UNIT

1. Three pieces of equipment were sent out for repair and returned.
2. Twelve pieces of test equipment were processed and returned to service.
3. Ten new items of test equipment were checked and issued to the shop.
4. A H-P Signal Generator Model 606B was inspected and rejected. This unit was for technical evaluation and indications are that the stability is not up to specifications.

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MECHANICAL UNIT

1. Ten Zero equipment cabinets were repaired and are now acceptable.
2. Three circuit breakers were installed in the Ultrasonic Cleaner in place of the fuses. A demonstration of the unit was held for the benefit of FTS technical personnel.
3. Forty aluminum adapters were manufactured at FTS and sent to [REDACTED] Corp. for black anodizing.

25X1A5a1

POWER UNIT

1. Checking of the 8-PAC generators continues and should be completed by the next reporting period.
2. Checked several pieces of switch gear and some small parts relating to the GM V-71 engine.
3. Checked several orders pertaining to engine repair parts and generator accessories.

CRYSTAL LAB

Totals	Requisitions	Crystals
New Orders	21	1,101
Orders Completed	25	1,181
Backlog	4	152
Due In	19	3,535

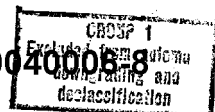
25X1A6a

DEPOT

1. One hundred eighty-four debit vouchers consisting of four hundred seventy-one line items were processed this month.
2. Not reported last month(July): Fifty-five debit vouchers totaling sixty-nine line items were processed.

GENERAL COMMENTS

Several films were shown this month, but the ones of most interest were from Tektronix. They included information on Time, Square Waves, Thevinin's Theorem, Unbalanced Bridge, and Triode Plate Characteristics.



TSB SUPPLY

1. EXPENDITURES

As of 27 August 1966 a total of \$50,512.15 has been expended for FY67.

The breakdown for the period of 26 July through 25 August is as follows:

	<u>Regn.</u>	<u>Line Items</u>	
Teletype	6	301	\$29,383.05
Cryptographic	1	7	1,000.00
TOTAL	7	308	\$30,383.05

2. Prepared a P.M. for Call Director parts, also a parts list by component cross referencing to FSN.

3. MPL's

The KG-13 MPL has been completed.

The HN-9 MPL has been sent to the printers.

4. To expedite stock information to the field for cryptographic spares cross references from part number to FSN will be prepared. The KW-7 is the first to be prepared, with a little luck will be ready for typing around 7 September.

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